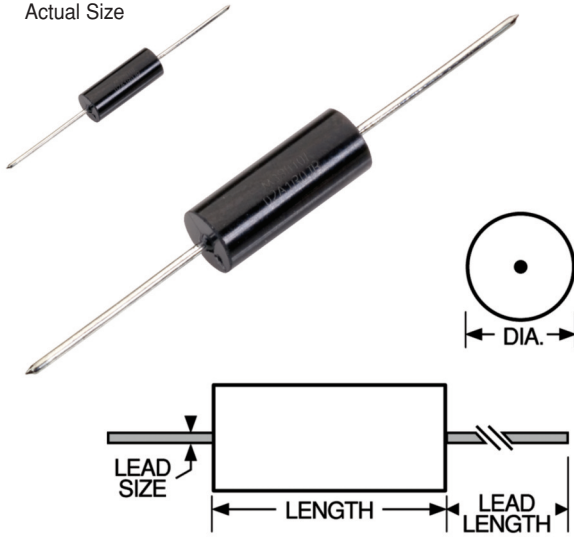


**SERIES****1641R**  
**1641****Molded Shielded RF Coils**

Actual Size

**Military Specifications**

MS75087 (LT10K); MS75088 (LT10K);  
MS75089 (15 $\mu$ H to 1000 $\mu$ H only) (LT10K)

**Physical Parameters**

|             | Inches            | Millimeters      |
|-------------|-------------------|------------------|
| Length      | 0.410 $\pm$ 0.020 | 10.41 $\pm$ 0.51 |
| Diameter    | 0.162 $\pm$ 0.010 | 4.11 $\pm$ 0.25  |
| Lead Size   |                   |                  |
| AWG #22 TCW | 0.025 $\pm$ 0.002 | 0.635 $\pm$ 0.05 |
| Lead Length | 1.44 $\pm$ 0.12   | 36.58 $\pm$ 3.05 |

**Current Rating at 90°C Ambient** 15°C Rise**Operating Temperature Range** -55°C to +105°C**Maximum Power Dissipation at 90°C** 0.11 W**Weight Max.** (Grams) 1.0**Incremental Current** Current level which causes a Max. of 5% change in inductance.**Coupling** 3% Max.

**Marking** DELEVAN; inductance with units and tolerance;  
date code (YYWWL). Note: An R before the date code  
indicates a RoHS component.

Example: 1641-103H

|               |               |
|---------------|---------------|
| Front:        | Reverse:      |
| DELEVAN       | 10uH $\pm$ 3% |
| 10uH $\pm$ 3% | 0907A         |

**Packaging** Tape & reel: 12" reel, 2500 pieces max.; 14" reel, 4000 pieces max.

**Made in the U.S.A.**

| DASH NUMBER*                                                  | MIL DASH # | INDUCTANCE ( $\mu$ H) $\pm$ 10% | Q MINIMUM | TEST FREQUENCY (MHz) | SRF MINIMUM (MHz) | DC RESISTANCE MAXIMUM (OHMS) | CURRENT RATING MAXIMUM (mA) | INCREMENTAL CURRENT (mA) |
|---------------------------------------------------------------|------------|---------------------------------|-----------|----------------------|-------------------|------------------------------|-----------------------------|--------------------------|
| <b>MS75087- SERIES 1641 PHENOLIC CORE/IRON SLEEVE (LT10K)</b> |            |                                 |           |                      |                   |                              |                             |                          |
| -101K                                                         | 1          | 0.10                            | 50        | 25.0                 | 250.0             | 0.025                        | 1830                        | 1830                     |
| -121K                                                         | 2          | 0.12                            | 51        | 25.0                 | 250.0             | 0.034                        | 1570                        | 1570                     |
| -151K                                                         | 3          | 0.15                            | 51        | 25.0                 | 250.0             | 0.037                        | 1500                        | 1500                     |
| -181K                                                         | 4          | 0.18                            | 50        | 25.0                 | 250.0             | 0.047                        | 1330                        | 1330                     |
| -221K                                                         | 5          | 0.22                            | 49        | 25.0                 | 250.0             | 0.067                        | 1120                        | 1120                     |
| -271K                                                         | 6          | 0.27                            | 47        | 25.0                 | 250.0             | 0.11                         | 870                         | 870                      |
| -331K                                                         | 7          | 0.33                            | 46        | 25.0                 | 250.0             | 0.13                         | 800                         | 800                      |
| -391K                                                         | 8          | 0.39                            | 44        | 25.0                 | 250.0             | 0.18                         | 680                         | 680                      |
| -471K                                                         | 9          | 0.47                            | 44        | 25.0                 | 235.0             | 0.25                         | 580                         | 580                      |
| -561K                                                         | 10         | 0.56                            | 43        | 25.0                 | 210.0             | 0.33                         | 505                         | 505                      |
| -681K                                                         | 11         | 0.68                            | 42        | 25.0                 | 190.0             | 0.45                         | 430                         | 430                      |
| -821K                                                         | 12         | 0.82                            | 40        | 25.0                 | 180.0             | 0.59                         | 375                         | 375                      |
| <b>MS75088- SERIES 1641 IRON CORE &amp; SLEEVE (LT10K)</b>    |            |                                 |           |                      |                   |                              |                             |                          |
| -102K                                                         | 1          | 1.0                             | 44        | 25.0                 | 140.0             | 0.07                         | 1090                        | 1090                     |
| -122K                                                         | 2          | 1.2                             | 44        | 7.9                  | 130.0             | 0.10                         | 900                         | 900                      |
| -152K                                                         | 3          | 1.5                             | 44        | 7.9                  | 115.0             | 0.12                         | 835                         | 835                      |
| -182K                                                         | 4          | 1.8                             | 44        | 7.9                  | 105.0             | 0.14                         | 775                         | 775                      |
| -222K                                                         | 5          | 2.2                             | 44        | 7.9                  | 100.0             | 0.19                         | 665                         | 665                      |
| -272K                                                         | 6          | 2.7                             | 44        | 7.9                  | 92.0              | 0.28                         | 545                         | 545                      |
| -332K                                                         | 7          | 3.3                             | 44        | 7.9                  | 85.0              | 0.35                         | 490                         | 490                      |
| -392K                                                         | 8          | 3.9                             | 44        | 7.9                  | 75.0              | 0.40                         | 455                         | 455                      |
| -472K                                                         | 9          | 4.7                             | 44        | 7.9                  | 70.0              | 0.55                         | 390                         | 390                      |
| -562K                                                         | 10         | 5.6                             | 44        | 7.9                  | 65.0              | 0.72                         | 340                         | 340                      |
| -682K                                                         | 11         | 6.8                             | 50        | 7.9                  | 55.0              | 1.02                         | 285                         | 285                      |
| -822K                                                         | 12         | 8.2                             | 50        | 7.9                  | 50.0              | 1.32                         | 250                         | 250                      |
| -103K                                                         | 13         | 10.0                            | 50        | 7.9                  | 46.0              | 1.62                         | 228                         | 228                      |
| -123K                                                         | 14         | 12.0                            | 55        | 2.5                  | 44.0              | 2.00                         | 205                         | 205                      |
| <b>MS75089- SERIES 1641 FERRITE CORE &amp; SLEEVE (LT10K)</b> |            |                                 |           |                      |                   |                              |                             |                          |
| -153K                                                         | 1          | 15.0                            | 45        | 2.5                  | 49.0              | 0.80                         | 325                         | 250                      |
| -183K                                                         | 2          | 18.0                            | 45        | 2.5                  | 45.0              | 0.89                         | 305                         | 235                      |
| -223K                                                         | 3          | 22.0                            | 45        | 2.5                  | 41.0              | 0.96                         | 295                         | 220                      |
| -273K                                                         | 4          | 27.0                            | 45        | 2.5                  | 38.0              | 1.19                         | 265                         | 200                      |
| -333K                                                         | 5          | 33.0                            | 45        | 2.5                  | 34.0              | 1.37                         | 248                         | 190                      |
| -393K                                                         | 6          | 39.0                            | 50        | 2.5                  | 29.0              | 1.93                         | 209                         | 180                      |
| -473K                                                         | 7          | 47.0                            | 50        | 2.5                  | 27.0              | 2.11                         | 200                         | 175                      |
| -563K                                                         | 8          | 56.0                            | 50        | 2.5                  | 25.0              | 2.23                         | 194                         | 160                      |
| -683K                                                         | 9          | 68.0                            | 50        | 2.5                  | 21.0              | 2.70                         | 176                         | 150                      |
| -823K                                                         | 10         | 82.0                            | 50        | 2.5                  | 10.5              | 2.44                         | 186                         | 140                      |
| -104K                                                         | 11         | 100.0                           | 50        | 2.5                  | 10.0              | 3.12                         | 164                         | 120                      |
| -124K                                                         | 12         | 120.0                           | 55        | 0.79                 | 9.7               | 3.60                         | 153                         | 95                       |
| -154K                                                         | 13         | 150.0                           | 55        | 0.79                 | 8.5               | 4.10                         | 143                         | 90                       |
| -184K                                                         | 14         | 180.0                           | 55        | 0.79                 | 8.0               | 4.40                         | 138                         | 85                       |
| -224K                                                         | 15         | 220.0                           | 55        | 0.79                 | 7.5               | 5.00                         | 130                         | 80                       |
| -274K                                                         | 16         | 270.0                           | 55        | 0.79                 | 7.0               | 5.80                         | 120                         | 70                       |
| -334K                                                         | 17         | 330.0                           | 55        | 0.79                 | 6.5               | 6.40                         | 115                         | 65                       |
| -394K                                                         | 18         | 390.0                           | 60        | 0.79                 | 6.2               | 7.40                         | 107                         | 60                       |
| -474K                                                         | 19         | 470.0                           | 60        | 0.79                 | 5.7               | 9.50                         | 94                          | 58                       |
| -564K                                                         | 20         | 560.0                           | 60        | 0.79                 | 4.7               | 10.5                         | 90                          | 55                       |
| -684K                                                         | 21         | 680.0                           | 60        | 0.79                 | 4.5               | 11.8                         | 84                          | 50                       |
| -824K                                                         | 22         | 820.0                           | 60        | 0.79                 | 4.2               | 13.0                         | 80                          | 45                       |
| -105K                                                         | 23         | 1000.0                          | 60        | 0.79                 | 3.8               | 17.5                         | 70                          | 40                       |

**See 4307 Series for values above 1000 $\mu$ H.****Parts listed above are QPL/MIL qualified**

Optional Tolerances: J = 5% H = 3%

\*Complete part # must include series # PLUS the dash #

For surface finish information, refer to [www.delevanfinishes.com](http://www.delevanfinishes.com)